ALUMINUM ELECTROLYTIC CAPACITORS

nichicon



Ø Anti-Solvent Feature For SMD Smalle Bi-polarized

WP

Smaller

ZE

• Chip type with 4.5mm height.

Not recommended for new designs

- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).
- Products which are scheduled to be discontinued.





Type numbering system (Example : 16V 10_µF)

Specifications

Item	Performance Characteristics														
Category Temperature Range	-40 to +85°C														
Rated Voltage Range	6.3 to 50V														
Rated Capacitance Range	0.1 to 47µF														
Capacitance Tolerance	±20% at 120Hz, 20°C														
Leakage Current	After 2 minutes' ap	After 2 minutes' application of rated voltage, leakage current is not more than 0.05 CV or 10 (µA) , whichever is greater.													
Tangent of loss angle (tan $\delta)$	Measurement frequency : 120Hz at 20°C														
	Rated voltage (V)		6.3		10		6	25	25 35		50				
	tan δ (MAX.)		0.30	0 0	.24	0.	20	0.18	0.	.16	0.16				
Stability at Low Temperature	Measurement frequency : 120Hz														
	Rated voltage (V)			6.3	10		16	25		35	50				
	Impedance ratio			4	3		2	2		2	2				
	ZT / Z20 (MAX.)			8	8		4	4		3	3				
Endurance	the capacitors are restored to 20°C after the rated $\tan \delta$							itance change Within ±20% of t				of the initial capacitance value			
										300	0% or less t	less than the initial specified value			
	voltage is applied for 2000 hours at 85°C with the polarity inverted every 250 hours.								nt	Les	ss than or e	qual to the initial specified value			
Shelf Life	After storing the capacitors under no load at 85°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.														
Resistance to soldering heat	The capacitors are kept on a hot plate for 30 seconds, which is Capacitance cha									chang	ge Within $\pm 10\%$ of the initial capacitance value				
	maintained at 250°C. The capacitors shall meet the tap δ less than or equal to the initial specifie										an or equal to the initial specified value				
	characteristic requirements listed at right when they are removed from the plate and restored to 20°C.							Leakag	Leakage current			Less than or equal to the initial specified value			
Marking	Black print on the case top.														

Chip Type

1 2 3 4 5 6 7 8 9 10 11 12 13 14 U Z P 1 C 1 0 0 M C L 1 G B Plastic platform 0.5 MAX Capacitance 0.3 MAX. C±0.2 Lot No Taping code Configuration (mm) A±0.3 φD 4 5 6.3 A 1.8 2.1 2.4 B 4.3 5.3 6.6 0 0 Capacitance tolerance (±20%) ¢D±0.5 B±0.2 111 A±0.3 Rated capacitance (10µF) 0 0 5.3 6.6 1.3 2.2 43 Rated voltage (16V) 4.5 +0.1 Series name 0.5 to 0.8 ※ Voltage mark for 6.3V is [6V]. Туре

Dimensions

Frequency

Coefficient

	V 6.3		3	10		1	6	2	5	35		50	
Cap. (µF)	Code	0J		1A		1C		1E		1V		1H	
0.1	0R1											4	1.0
0.22	R22											4	2.0
0.33	R33	1			1		1				1	4	2.8
0.47	R47				1							4	4.0
1	010											4	8.4
2.2	2R2	i			1		1			4	8.4	5	13
3.3	3R3	l					1	5	12	5	16	5	17
4.7	4R7					4	12	5	16	5	18	6.3	20
10	100			4	17	5	23	6.3	27	6.3	29		
22	220	5	28	6.3	33	6.3	37				1		
33	330	6.3	37	6.3	41	6.3	49				1		
47	470	6.3	45		 							Case size ¢D (mm)	Rated ripple

10 kHz or more

1.50

Rated ripple current (mArms) at 85°C 120Hz

Frequency coefficient of rated ripple current 50 Hz

0.70

120 Hz

1.00

300 Hz

1.17

1 kHz

1.36

• Taping specifications are given in page 23.

- · Recommended land size, soldering by reflow are given in page 18, 19.
- Please select WP(p.116), UN(p.162) series if high C/V

products are regired. • Please refer to page 3 for the minimum order quantity.

CAT.8100D